

Other Attachment File(s)

* Mandatory Other Attachment Filename:

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Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note: Read Instructions before completing form.

I. A. Applicant/Recipient (Name, Address, City, State, Zip Code)

Name: Verde

Address: Ex. 6 Personal Privacy (PP)

City: Portland

State: OR: Oregon Zip Code: 97218

B. DUNS No. 6147452270000

II. Is the applicant currently receiving EPA Assistance? ☐ Yes ☒ No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

N/A

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective actions taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

N/A

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3))

N/A

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

☐ Yes ☒ No

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).

☐ Yes ☐ No

b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable by persons with disabilities, explain how a regulatory exception (40 C.F.R. 7.70) applies.

VII. Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex, age, or disability in its program or activities? (40 C.F.R. 5.140 and 7.95)

☒ Yes ☐ No

a. Do the methods of notice accommodate those with impaired vision or hearing?

☒ Yes ☐ No

b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications?

☒ Yes ☐ No

c. Does the notice identify a designated civil rights coordinator?

☒ Yes ☐ No

VIII. Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. 7.85(a))

☒ Yes ☐ No

IX. Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166)

☒ Yes ☐ No

- X. If the applicant is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator.

Candace Avalos, Executive Director, Ex. 6 Personal Privacy (PP) Portland, OR 97218, candaceavalos@verdenw.org, no fax, Ex. 6 Personal Privacy (PP)

- XI. If the applicant is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet Address for, or a copy of, the procedures.

Ex. 6 Personal Privacy (PP)

For the Applicant/Recipient

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official

Maricela D Ortega

B. Title of Authorized Official

Executive Director

C. Date

03/24/2022

For the U.S. Environmental Protection Agency

I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preaward compliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisions of 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. *Signature of Authorized EPA Official

B. Title of Authorized Official

C. Date

*** See Instructions**

Instructions for EPA FORM 4700-4 (Rev. 06/2014)

General. Recipients of Federal financial assistance from the U.S. Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment). Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities. Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities. The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission. Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution. 40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972. 40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973. The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items "Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by 40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed. "Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability. Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission. If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable." In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification. * Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.

Project Narrative File(s)

* **Mandatory Project Narrative File Filename:** 1239-Cully Air Action Project Narrative - EPA.docx

Add Mandatory Project Narrative File

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To add more Project Narrative File attachments, please use the attachment buttons below.

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BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006
Expiration Date: 02/28/2022

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Cully Clean Air Community Action Project	66	\$	\$	117,830.45	\$	117,830.45
2.						
3.						
4.						
5. Totals		\$	\$	117,830.45	\$	117,830.45

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SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	Cully Clean Air Community Action Project				
a. Personnel	\$ 48,900.00	\$	\$	\$	\$ 48,900.00
b. Fringe Benefits	9,934.00				9,934.00
c. Travel	313.45				313.45
d. Equipment	26,250.00				26,250.00
e. Supplies	10,060.00				10,060.00
f. Contractual					
g. Construction					
h. Other	2,000.00				2,000.00
i. Total Direct Charges (sum of 6a-6h)	97,457.45				\$ 97,457.45
j. Indirect Charges	20,373.00				\$ 20,373.00
k. TOTALS (sum of 6i and 6j)	\$ 117,830.45	\$	\$	\$	\$ 117,830.45
7. Program Income	\$	\$	\$	\$	\$

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program		(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8.	Cully Clean Air Community Action Project	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
9.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
12. TOTAL (sum of lines 8-11)		\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ <input type="text" value="117,830.45"/>	\$ <input type="text" value="49,145.45"/>	\$ <input type="text" value="22,895.00"/>	\$ <input type="text" value="22,895.00"/>	\$ <input type="text" value="22,895.00"/>
14. Non-Federal	\$ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15. TOTAL (sum of lines 13 and 14)	\$ <input type="text" value="117,830.45"/>	\$ <input type="text" value="49,145.45"/>	\$ <input type="text" value="22,895.00"/>	\$ <input type="text" value="22,895.00"/>	\$ <input type="text" value="22,895.00"/>

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program		FUTURE FUNDING PERIODS (YEARS)			
		(b)First	(c) Second	(d) Third	(e) Fourth
16.	Cully Clean Air Community Action Project	\$ <input type="text" value="117,830.45"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
17.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
18.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
20. TOTAL (sum of lines 16 - 19)		\$ <input type="text" value="117,830.45"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: <input type="text"/>	22. Indirect Charges: <input type="text"/>
23. Remarks: <input type="text"/>	

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Application for Federal Assistance SF-424

* 1. Type of Submission:

- ☐ Preapplication
☒ Application
☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received:

03/24/2022

4. Applicant Identifier:

5a. Federal Entity Identifier:

J1A1BE5CWGY6

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

Oregon

8. APPLICANT INFORMATION:

* a. Legal Name:

Verde

* b. Employer/Taxpayer Identification Number (EIN/TIN):

20-3685723

* c. Organizational DUNS:

6147452270000

d. Address:

* Street1:

Ex. 6 Personal Privacy (PP)

Street2:

* City:

Portland

County/Parish:

* State:

OR: Oregon

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

97218-2201

e. Organizational Unit:

Department Name:

Community Engagement

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

Ms.

* First Name:

Maricela

Middle Name:

* Last Name:

Guzman

Suffix:

Title:

Development Manager

Organizational Affiliation:

Verde

* Telephone Number:

Ex. 6 Personal Privacy (PP)

Fax Number:

* Email:

maricelaortega@verdenw.org

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

M: Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

Environmental Protection Agency

11. Catalog of Federal Domestic Assistance Number:

66.034

CFDA Title:

Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities
Relating to the Clean Air Act

* 12. Funding Opportunity Number:

EPA-OAR-OAQPS-22-01

* Title:

Enhanced Air Quality Monitoring for Communities

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

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* 15. Descriptive Title of Applicant's Project:

Cully Clean Air Community Action Project

Attach supporting documents as specified in agency instructions.

Add Attachments

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Application for Federal Assistance SF-424**16. Congressional Districts Of:*** a. Applicant * b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:* a. Start Date: * b. End Date: **18. Estimated Funding (\$):**

* a. Federal	<input type="text" value="116,681.00"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="116,681.00"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☒ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:

Middle Name:

* Last Name:

Suffix:

* Title: * Telephone Number: Fax Number: * Email: * Signature of Authorized Representative: * Date Signed:



EPA KEY CONTACTS FORM

OMB Number: 2030-0020
Expiration Date: 06/30/2024

Authorized Representative: *Original awards and amendments will be sent to this individual for review and acceptance, unless otherwise indicated.*

Name:	Prefix:	First Name:	Middle Name:
		Candace	
	Last Name:		Suffix:
	Avalos		
Title:	Executive Director		
Complete Address:			
Street1:	Ex. 6 Personal Privacy (PP)		
Street2:			
City:	Portland	State:	OR: Oregon
Zip / Postal Code:	97218	Country:	USA: UNITED STATES
Phone Number:	Ex. 6 Personal Privacy (PP)	Fax Number:	
E-mail Address:	candaceavalos@verdenw.org		

Payee: *Individual authorized to accept payments.*

Name:	Prefix:	First Name:	Middle Name:
	Last Name:		Suffix:
Title:			
Complete Address:			
Street1:			
Street2:			
City:		State:	
Zip / Postal Code:		Country:	
Phone Number:		Fax Number:	
E-mail Address:			

Administrative Contact: *Individual from Sponsored Programs Office to contact concerning administrative matters (i.e., indirect cost rate computation, rebudgeting requests etc).*

Name:	Prefix:	First Name:	Middle Name:
		Maricela	
	Last Name:		Suffix:
	Guzman		
Title:	Development Coordinator		
Complete Address:			
Street1:	Ex. 6 Personal Privacy (PP)		
Street2:			
City:	Portland	State:	OR: Oregon
Zip / Postal Code:	97218	Country:	USA: UNITED STATES
Phone Number:	Ex. 6 Personal Privacy (PP)	Fax Number:	
E-mail Address:	maricelaortega@verdenw.org		

EPA KEY CONTACTS FORM

Project Manager: *Individual responsible for the technical completion of the proposed work.*

Name: **Prefix:** **First Name:** **Middle Name:**

Last Name: **Suffix:**

Title:

Complete Address:

Street1:

Street2:

City: **State:**

Zip / Postal Code: **Country:**

Phone Number: **Fax Number:**

E-mail Address:

Sergio Lopez

Ex. 6 Personal Privacy (PP)

CORE SKILLS: Fluent in Spanish and English - Management - Community Outreach - Marketing & Networking – Relationship Building - Public Speaking - Event Coordinating - Microsoft Office (Excel, Word, Publisher, and Powerpoint) –Salesforce – Zendesk- Slack

PROFESSIONAL EXPERIENCE:

Verde

Energy Climate and Transportation Coordinator, December 2020- Present:

- Responsible for coordinating with Verde staff, community members, partner organizations and other stakeholders to represent the strategic direction of the organizations' environmental justice values and policy priorities.
- Represent Verde in Rule Advisory Committees (RAC's) under the Department of Environmental Quality (DEQ). Programs include the Clean Fuels Program, Air Quality Permitting Program and the Oregon Clean Vehicle Program for the benefit of environmental justice issues for low-income and BIPOC communities.
- Leads the Air Quality work at Verde that includes Purple Air Project with Neighbors for Clean Air (NCA), Community Diesel Education for community story map telling, and is a lead in pushing DEQ to regulate Owens Brockway's air pollutant levels.
- Engages, organizes and applies all of Verde's air Quality programs with Lideres Verdes, a leadership program that empowers latinx community members to learn and take action on environmental issues affecting their communities.

Forth

Program Manager, December 2018- December 2020:

- Managed the promotion for the Oregon Clean Vehicle Rebate Program (OCVRP), including outreach implementation, style guide design, and community partner engagement.
- Led the development and delivery of projects that advance electric and equitable transportation, including the U.S Department of Energy funded St. Louis Vehicle Electrification Rides for Seniors (SiLVERS) project.
- Led the Technical Assistance program for Portland General Electric's (PGE) 2019 Drive Change Grant Fund, which included outreach and assistance to community-based organizations who were interested in benefiting from electric transportation for their program services. Two successful applications included work with Native American Youth and Family Center (NAYA), and Portland African American Leadership Forum (PAALF).
- Managed the Go Forth Electric Showcase - A brand neutral staffed resource center that provided information on electric transportation, such as rebates, incentives and test drives. Work included staff training, personnel management and operational logistics.
- Managed a team of two that supported current programs and projects that advocate for clean and electric transportation.
- Regularly spoke, presented and advised on racial equity in electric and new mobility.

Program Associate, May 2017- November 2018:

- Helped deliver and facilitate transportation equity projects that help historically underserved communities get access to smart and clean transportation, such as the Community Electric Vehicle Project and the Community Electric Bicycle Project.

- Staffed the Go Forth Electric Showcase, which educated consumers about brand neutral electric vehicle adoption and other clean modes and transportation. Assisted with Ride & Drive events that focus on consumer engagement in partnership with utility companies and community-based organizations.

Special Projects Intern, via PSU Sustainability Department, October 2016- May 2017:

- Assisted with the design, delivery, and evaluation of Community Electric Vehicle Project. In Partnership with Hacienda CDC, the project included outreach in the Cully Neighborhood to help better the communication and advocacy of an electric vehicle car sharing project for low - income residents who lacked access to consistent transportation.

BIKETOWN by Motivate

Customer Relations Specialist/ Brand Ambassador, May 2016- June 2019:

- Customer Relations included mitigating daily cases via ticketing system submitted by users around concerns, how to use our products, and feedback. Reported firmware and software bugs to operations team.
- Presented to companies, universities and other community organizations about the benefits and conveniences of BIKETOWN.
- Assisted with the CCC's (Community Cycling Center) BIKETOWN for All Workshops by helping low-income residents get established with the program.

Community Cycling Center

Interim Program Coordinator, July 2017-August 2017:

- Responsible for organizing, budgeting and facilitating events within a Latinx community in NE Portland formerly called "*Andando en Bicicletas en Cully*" (ABC), which translates to "Riding Bikes in Cully". The community group now goes by "*Andando en Bicicletas y Caminando*" (Riding Bikes and Walking Around) and holds the same mission that unites the community with activities and events related to active transportation.
- Helped with the transition of two program coordinators and helped with onboarding logistics.

Portland State University

Research Assistant, March 2014-June 2014(Spring Term 2014)

- Conducted research that was centered on public policy, microplanning, and political action related to constructed landscapes and public spaces in urban periphery neighborhoods in Sao Paulo with the objective to support innovative urban planning programs and policies that explicitly build on the connections between healthy communities, ecosystem services, and the affective mosaic of constructed landscapes and public spaces.
- Contacting NGO's, CBO's, and GIS mapping software and excel were included in the agenda.

EDUCATION:

Portland State University Portland, OR
Bachelor of Science, Cultural Anthropology
Riverside Community College Riverside, CA
Associate's Degree, General Education

PUBLICATIONS:

Transforming Active Transportation Through Electrification: The Community Electric Bike Project
November 2018, <https://forthmobility.org/storage/app/media/Documents/201811-CEB-final.pdf>

DIANA ROHLMAN

EXPERIENCE

2020 – PRESENT

DIRECTOR, COMMUNITY ENGAGEMENT CORE, OREGON STATE UNIVERSITY

Director of the Community Engagement Cores of the Pacific Northwest Center for Translational Environmental Health Research (2020 – present) and the Superfund Research Program (2022), funded by the National Institutes of Environmental Health Sciences (NIEHS).

2016 – PRESENT

ASSISTANT PROFESSOR (SR. RESEARCH), OREGON STATE UNIVERSITY

Research faculty in Environmental and Occupational Health, College of Public Health and Human Sciences. Adjunct faculty (2021 – present) in Environmental and Molecular Toxicology, College of Agricultural Sciences. Specialize in return of individual- and community-level data and environmental health literacy.

2015 – 2016

OUTREACH AND ENGAGEMENT COORDINATOR, OREGON STATE UNIVERSITY

Coordinator for the Community Engagement Cores of the Environmental Health Sciences Center and Superfund Research Program, funded by NIEHS.

EDUCATION

JULY 2017

POSTDOCTORAL FELLOW, OREGON STATE UNIVERSITY

Postdoctoral fellow in the College of Public Health and Human Sciences. Worked on multiple NIEHS-funded grants and obtained a certificate in Free-Choice Learning.

MAY 2013

PHD, OREGON STATE UNIVERSITY

PhD from the Department of Environmental and Molecular Toxicology, specializing in immunotoxicology. Developed a graduate-student led outreach and engagement program aimed at K-12 students. NIEHS Research Trainee (2007-2009; NIH T32 ES07060-23).

MAY 2013

BS, MARIETTA COLLEGE

SKILLS

- Community-engaged environmental health research and report-back
- Identify and monitor environmental exposures

DIANA ROHLMAN

- Link environmental exposures to health outcomes
- Develop and implement environmental health literacy tools and curricula

SELECTED PUBLICATIONS

- Rohlman D, Donatuto J, Heidt M, Barton M, Campbell L, Anderson KA, Kile ML. A Case Study Describing a Community-Engaged Approach for Evaluating Polycyclic Aromatic Hydrocarbon Exposure in a Native American Community. *Int J Environ Res Public Health*. 2019 Jan 24;16(3) PubMed Central PMCID: PMC6388274.
- Messier KP, Tidwell LG, Ghetu CC, Rohlman D, Scott RP, Bramer LM, Dixon HM, Waters KM, Anderson KA. Indoor versus Outdoor Air Quality during Wildfires. *Environ Sci Technol Lett*. 2019 Dec 10;6(12):696-701. PubMed Central PMCID: PMC7039657.
- Paulik LB, Hobbie KA, Rohlman D, Smith BW, Scott RP, Kincl L, Haynes EN, Anderson KA. Environmental and individual PAH exposures near rural natural gas extraction. *Environ Pollut*. 2018 Oct;241:397-405. PubMed Central PMCID: PMC7169985.
- Rohlman D, Dixon HM, Kincl L, Larkin A, Evoy R, Barton M, Phillips A, Peterson E, Scaffidi C, Herbstman JB, Waters KM, Anderson KA. Development of an environmental health tool linking chemical exposures, physical location and lung function. *BMC Public Health*. 2019 Jul 1;19(1):854. PubMed Central PMCID: PMC6604385.
- Scaffidi C, Kincl L, Rohlman D, Anderson KA. Linking the physical with the perceptual: Health and exposure monitoring with cyber-physical questionnaires. 2015 Euromicro Conference on Digital System Design. 2015. DOI: 10.1109/DSD.2015.13
- Oluyomi AO, Panthagani K, Sotelo J, Gu X, Armstrong G, Luo DN, Hoffman KL, Rohlman D, Tidwell L, Hamilton WJ, Symanski E, Anderson K, Petrosino JF, Walker CL, Bondy M. Houston hurricane Harvey health (Houston-3H) study: assessment of allergic symptoms and stress after hurricane Harvey flooding. *Environ Health*. 2021 Jan 19;20(1):9. PubMed Central PMCID: PMC7816385.
- Irvin VL, Rohlman D, Vaughan A, Amantia R, Berlin C, Kile ML. Development and Validation of an Environmental Health Literacy Assessment Screening Tool for Domestic Well Owners: The Water Environmental Literacy Level Scale (WELLS). *Int J Environ Res Public Health*. 2019 Mar 11;16(5) PubMed Central PMCID: PMC6427415.
- Donatuto J, Campbell L, LeCompte JK, Rohlman D, Tadlock S. The Story of 13 Moons: Developing an Environmental Health and Sustainability Curriculum Founded on Indigenous First Foods and Technologies. *Sustainability*. 2020 October 27; 12(21). Available from: <https://www.mdpi.com/2071-1050/12/21/8913> DOI: 10.3390/su12218913.
- Swinomish Indian Tribal Community (SITC). 2018. 13 Moons Environmental Health Curriculum. Eds.: Donatuto, J., LeCompte, J., Tadlock, S., M. Heidt, Rohlman, D and Campbell, L. La Conner, WA.
- **Complete List of Published Work in MyBibliography:** [[HYPERLINK "https://www.ncbi.nlm.nih.gov/myncbi/1bCwjek-7fqkGK/bibliography/public/"](https://www.ncbi.nlm.nih.gov/myncbi/1bCwjek-7fqkGK/bibliography/public/)]



Department of the Treasury
Internal Revenue Service

P.O. Box 2508
Cincinnati OH 45201

In reply refer to: 0248367569
Apr. 10, 2015 LTR 4168C 0
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00020859
BODC: TE

VERDE
% ALAN J HIPOLITO
6899 NE COLUMBIA BLVD
PORTLAND OR 97218



020753

Employer Identification Number: 20-3685723
Person to Contact: Mrs. Black
Toll Free Telephone Number: 1-877-829-5500

Dear Taxpayer:

This is in response to your Apr. 01, 2015, request for information regarding your tax-exempt status.

Our records indicate that you were recognized as exempt under section 501(c)(3) of the Internal Revenue Code in a determination letter issued in October 2006.

Our records also indicate that you are not a private foundation within the meaning of section 509(a) of the Code because you are described in section 509(a)(2).

Donors may deduct contributions to you as provided in section 170 of the Code. Bequests, legacies, devises, transfers, or gifts to you or for your use are deductible for Federal estate and gift tax purposes if they meet the applicable provisions of sections 2055, 2106, and 2522 of the Code.

Please refer to our website www.irs.gov/eo for information regarding filing requirements. Specifically, section 6033(j) of the Code provides that failure to file an annual information return for three consecutive years results in revocation of tax-exempt status as of the filing due date of the third return for organizations required to file. We will publish a list of organizations whose tax-exempt status was revoked under section 6033(j) of the Code on our website beginning in early 2011.

MARY SCHLICK PEVETO

Ex. 6 Personal Privacy (PP)

* mary@whatsinourair.org

NEIGHBORS FOR CLEAN AIR, Portland, OR Co-FOUNDER/EXECUTIVE DIRECTOR, MARCH 2009 to present

Founded and directs Oregon's first and only public education and advocacy organization devoted exclusively to reducing toxic air pollution in the state. Current responsibilities include:

- Develop key **strategic alliances** with non-profit, government, and legal partners
- Manage organizational budget and three-five-person staff, including staff attorney
- Successfully **develop traditional media relations** to raise awareness about air toxics issues and solutions
- Provide **expert testimony** at legislative hearings, rulemaking meetings
- **Advocate to lawmakers and coordinate grass roots actions** to encourage stronger local and state air pollution policies
- **Fundraise to support the organization's work** through grants, foundations, and individual donors
- **Public speaking engagements:** Tedx Mt Hood, City Club, NW Environmental Conference, Pittsburgh (PA) Asthma Summit, Louisville (KY) Air Summit

———— COMMITTEE APPOINTMENTS ————

- **MEMBER:** US ENVIRONMENTAL PROTECTION AGENCY CLEAN AIR ACT ADVISORY COMMITTEE, CURRENT
- **2020-2022 RULEMAKING ADVISORY COMMITTEE MEMBER:** OR DEQ Air Permits, OR DEQ CAO Alignment, ODOT Clean Contracting, OR AG 2022 Clean Diesel Rulemaking, OR DEQ Waste Tire Rulemaking
- **COMMUNITY REPRESENTATIVE:** Neighborhood Advisory Committees for Good Neighbor Agreements with three Portland area companies: ESCO, Intel (current), and Vigor Industrial (current).
- **Member EPA Cleaner Air Oregon Community Engagement Workgroup 2019-2020**
- **MEMBER:** Portland Public School Harriet Tubman Environmental Technical Advisory Committee, 2018-2019
- **MEMBER:** Governor Brown's Cleaner Air Oregon Advisory Committee, 2016-2017
- **CHAIR:** Multnomah County Advisory Committee on Sustainability and Innovation (ACSI), 2015-2018
- **MEMBER:** Multnomah County ACSI Air Toxics subcommittee, current
- **MEMBER:** EPA Region X Portland Making a Visible Difference Steering Committee, 2016-2017
- **MEMBER:** Oregon Senate Natural Resources Interim Committee 2017 Diesel Workgroup, 2016-2017
- **MEMBER:** Metro Waste-to-energy Health Impact Assessment Advisory Committee, 2017

- **MEMBER:** Swan Island North Portland Air Quality Forum Team
- **MEMBER:** City Club Air Quality Advocacy Committee, 2014-2016
- **MEMBER:** Portland Air Toxics Solutions Advisory Committee August 2009-2011
- **MEMBER:** Health Equity Work Group, Coalition for a Livable Future August 2009-2011

———— PREVIOUS WORK EXPERIENCE ————

ADIDAS AG, Germany

GLOBAL WOMEN'S MARKETING MANAGER

Developed and executed cross-brand marketing strategy to ensure consistent and impactful brand identity for women's product and communication.

INTERNATIONAL PRODUCT LINE MANAGER: TRAINING FOOTWEAR

Executed go-to-market implementation of key footwear product category across the European marketplace.

NIKE, INC., Beaverton, Oregon

WOMEN'S CROSS TRAINING PLM

Responsible for sustaining profitability and product leadership through the product line development of what was then the company's largest footwear category from conception, design, to market. Worked directly with NIKE's head of design, Tinker Hatfield, to launch the first ever women's "icon" shoe designed for Volleyball player Gabrielle Reese.

INTERNATIONAL MARKETING MANAGER, BEAVERTON OREGON

Liaison to world markets to build stronger Women's product sales through consistent brand marketing and product line development and merchandising.

EKIN – TECHNICAL REPRESENTATIVE – ORANGE COUNTY, CALIFORNIA

Supported sales team in Nike's US strongest market. Responsibilities included maintaining strong relationships with retail accounts, supporting retail sales with individually tailored product education and promotional events, and representing the Nike brand at trade shows and sporting events.

CUSTOMATIX.COM, Santa Cruz, California

SALES & MARKETING

Support launch of industry's first design your own athletic shoe brand.

MEALS ON WHEELS, Santa Cruz, California

Developed and managed event and communication to celebrate the 50th Anniversary of this key social service non-profit.

———— EDUCATION ————

B.A. in History, Macalester College, St. Paul, MN



NEIGHBORS
FOR
CLEAN
AIR

Oregon's Air Is Toxic.

Fight to Clean It Up.

Join Our

March 24, 2022

Candace Avalos
Executive Director
Verde
4145 NE Cully Blvd
Portland, OR 97218

Dear Candace,

This letter serves to express the strong commitment of Neighbors for Clean Air to the proposed activities described in *Cully Clean Air Community Action Project*. We understand that this proposal will be submitted to the Environmental Protection Agency under Enhanced Air Monitoring for Communities, EPA-OAR-OAQPS-22-01.

We understand that this project entails increased air quality monitoring in Portland's Cully neighborhood, an area in which both organizations have collaborated to increase environmental literacy and reduce dangerous air toxics. It further entails community engagement activities aimed at supporting residents in their efforts to expand regulations on some of the worst forms of pollution in Cully, most specifically the PM 2.5 toxics created by diesel emissions. I'm eager to work collectively toward the goals of reducing harmful emissions while embedding air quality expertise within the Cully neighborhood.

I know that this builds upon the strong relationship between our two organizations and the shared deep commitment for an end to environmental injustice in Cully.

Thank you for all of your hard work!

Best,

Mary Peveto
Executive Director
DUNS # -- 034592925
TIN - 27-2837197

Project Title: Cully Clean Air Community Action Project

Applicant: Verde Ex. 6 Personal Privacy (PP) Portland OR 97218, Maricela Ortega Ex. 6 Personal Privacy (PP)
maricelaortega@verdenw.org DUNS # 614745227

Section 5 – Quality Assurance Statement (5 total possible points)

NCA understands and intends to carry out work under this grant within a quality assurance system commensurate with the degree of confidence needed for environmentally related data operations. Quality control and assurance for this project will be conducted by the research team, led by OSU's Dr. Diana Rohlman. At OSU, Dr. Rohlman directs two centers funded by the National Institutes of Environmental Health, and is co-PI of a \$1.6 million grant from the National Science Foundation. She is currently leading a project entitled *Wildfire Smoke Exposure during Pregnancy* where she is evaluating changes in PM_{2.5} exposure in pregnant individuals before and during wildfires in Klamath County, Oregon. Dr. Rohlman has supervised over 30 undergraduate student research projects and two master's research projects and is currently co-mentoring five Ph.D. students at OSU and other universities. She previously worked with the Corvallis Sustainability Coalition to conduct household air sampling for PM_{2.5}, collecting data on over 100 Corvallis households. For her projects, Dr. Rohlman oversees and is responsible for all data collection and data analysis.

Quality Control Practices

- *Calibration and maintenance of monitors.* Air monitors will be calibrated by the manufacturer at the time of purchase and should come with a certificate of calibration. Monitors should function for at least one year before requiring calibration. At least one site will be deployed in triplicate (see below) to assess monitor performance over time in the field. This will allow the research team to assess the monitors' precision and accuracy over the one-year duration of the grant.
- *Training.* The PSU graduate student will undergo training in field safety, data management, and best practices for returning environmental data. Dr. Rohlman will lead this training. Training in community engagement and the history of the Cully neighborhood will be conducted by Verde and NCA.
- *Data management.* All data will be stored in a centralized repository on Google Drive, which can be used to store Level 1 and Level 2 data, including data in this proposal. Identifying information (participant names or addresses) will be removed prior to upload and will only be available to the research team via a restricted file. Dr. Rohlman and project personnel will maintain documentation for a minimum of five years past grant funding, to include raw and analyzed data, as well as project notes.
- *Data analysis.* Data analysis will be conducted following protocols from Dr. Rohlman's research laboratory. These protocols ensure rigorous data management and data analysis procedures, along with embedded quality control checks throughout the analysis process. For example, all data is time-stamped, enabling a test to determine if a monitor operated continuously, or if gaps exist in the data.
- *Data Quality indicators.* Internal quality control checks will be conducted routinely.
 - *Precision.* Triplicate monitors will be assessed monthly to monitor performance over time, and to assess the precision of the monitors. The values from each triplicate monitor will be compared via the relative standard deviation.
 - *Accuracy.* Using the triplicate monitors, values of at least two monitors will be within 10% of each other.

- *Representativeness.* To evaluate representativeness, data from the Purple Air Quality monitors will be compared to data from the Oregon Department of Environmental Quality PM2.5 [[HYPERLINK "https://hdcgcx2.deq.state.or.us/HVR291/?viewer=aqm&viewer=aqm" \h](https://hdcgcx2.deq.state.or.us/HVR291/?viewer=aqm&viewer=aqm)] and US Environmental Protection Agency PM2.5 [[HYPERLINK "https://www.epa.gov/outdoor-air-quality-data/interactive-map-air-quality-monitors" \h](https://www.epa.gov/outdoor-air-quality-data/interactive-map-air-quality-monitors)]. As part of the study design, the team will endeavor to place monitors within 10 miles of at least one DEQ or EPA monitor.
- *Comparability.* All monitors will be assessed every month to identify any performance issues (sudden increases/decreases indicating monitor error). Additionally, data will be compared to other Portland-area neighborhoods with Purple Air monitors, to assess spatial and temporal trends.
- *Completeness.* Monitors will run for one year. All data will be uploaded to the cloud, available for analysis by the research team. Missing data will be identified to determine if it is missing due to monitor malfunction or error in upload/download of data. To assess completeness, the total number of measurements made, per monitor, will be calculated.

Quality Assurance Practices

The following activities will be conducted by the research team in a systematic and well-documented manner.

- *Safety as a quality assurance measure.* The research team maintains safety under the auspices of NCA. Each team member is required to practice safety procedures. This may include times when field work may be conducted, use of identifying clothing when deploying monitors, teams of two or more people in the field, and fully stocked field kits that include first-aid kits.
- *Selection of air monitor locations.* NCA and Verde will select monitor hosts who will be neighborhood activists who are associated with Verde and who will commit to maintaining the monitors during the duration of the project. This will include ensuring close proximity to a house to ensure the monitors maintain an above freezing temperature and cleaning them of debris on a regular basis.
- *Placement of air monitors.* Monitors will be placed in the community with approval by the homeowner or other appropriate individual (i.e., school principal). Monitors will be placed between 1.5 – 2 meters above ground and will be located away from known local sources of contamination. For example, if a monitor is placed at a school, areas where cars idle while dropping off or picking up students will be avoided. Monitor locations will be geo-coded and a description of the locations will be characterized by the research team (e.g., proximity to roads, height from the ground). Each location will receive a study ID and location addresses or names will only be accessible to study team members. The study ID will be generic (i.e., Cully_001) and will not include any identifiable information such as participant names or street names.
- *Data collection.* All data will be automatically uploaded to the microAeth server. Data will be routinely monitored to identify any concerns with the monitors. In the event a monitor goes offline, NCA will contact the individual at that location and conduct basic trouble-shooting (e.g., is the monitor plugged in, is there visible damage, etc.).
- *Data analysis.* Data analysis will be conducted as previously described. Data will be compared relative to existing standards for PM_{2.5}, per NAAQS. All data analysis will be documented and raw data available for validation. All activities will be documented by the research team and stored in a shared Google Drive folder. All information necessary to reconstruct an analysis will

be recorded. This may include sample identifier, raw data, data corrections, statistical methods, and date and initials of personnel performing analysis.

- *Return of individual- and community-level data.* Dr. Rohlman routinely returns individual-level data to study participants, including data for PM_{2.5}, polycyclic aromatic hydrocarbons, flame retardants, and pesticides, among others. Reports are written at an eighth-grade reading level and assessed via the Centers for Disease Control and Prevention's Clear Communication Index ([[HYPERLINK "https://www.cdc.gov/ccindex/index.html" \h](https://www.cdc.gov/ccindex/index.html)]). Reports are anticipated to include a cover letter describing the study and use of the monitor, links to videos about the monitor and type of data collected, individual results within the context of the study population, published regulatory standards or health guidelines, and methods for reducing exposure and improving health. Community-level data will identify spatial and temporal trends for speciated PM_{2.5} throughout the Cully neighborhood and actions for community engagement around reducing air pollution.



1640 Valencia St. STE 2C
San Francisco, CA. 94110

March 20, 2022

To Whom It May Concern,

It is with great enthusiasm and interest that I write in support of the proposal titled "Cully Clean Air Community Action Project"; a collaboration between Verde and Neighbors for Clean Air. AethLabs can support this project with a lease of 5 MA350 multi-wavelength Black Carbon monitors that can be used to distinguish between traffic and woodsmoke sources. The MA350 instruments are self-contained, long-term monitors that can be connected to WiFi for telemetry and deployment management. AethLabs is happy to contribute insights from its own data analysis experience and provide suggestions regarding QA/QC methods that have been developed at AethLabs using internal data science tools and related know-how.

AethLabs will also support the project by loaning at no charge, 5 multi-pollutant PM monitors that have been developed and commercialized under recent EPA SBIR Phase II funding for a "Black Carbon and UV Particulate Matter, Multi-gas, Multi-pollutant Sensor Platform". This device is a standalone PM monitor that can be easily deployed, has WiFi data transmission and reports PM1, PM2.5, and PM10 particle number, count, and mass concentration measurements along with CO2, total VOC and NOx measurements.

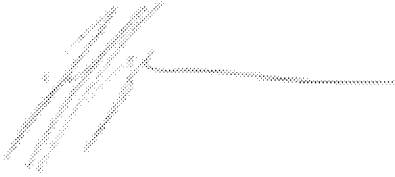
AethLabs will lease 5 MA350 instruments at a cost of \$5,250 per instrument per year for a 1 year measurement campaign, including consumables and a weather protection inlet and water trap. Any required maintenance will be carried out at AethLabs' facility as part of the lease.

Total cost for the lease of 5 MA350 instruments for 1 years: \$26,250

No-cost loan of 5 multi-pollutant PM monitors for 1 year: NO CHARGE

If there is interest, and additional funding becomes available before the end of the period of performance of this proposal, AethLabs will apply the \$26,250 rental fee towards the purchase of those same instruments so that EPA funds can be used as a long term investment into a community network with research grade instrumentation.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Jeffrey Blair', followed by a long horizontal line.

Jeffrey Blair
CEO



1640 Valencia St. STE 2C
San Francisco, CA. 94110

March 20, 2022

To Whom It May Concern,

It is with great enthusiasm and interest that I write in support of the proposal titled "EPA Enhanced Air Quality Monitoring for Communities"; a collaboration between Verde and Neighbors for Clean Air. AethLabs can support this project with a lease of 5 MA350 multi-wavelength Black Carbon monitors that can be used to distinguish between traffic and woodsmoke sources. The MA350 instruments are self-contained, long-term monitors that can be connected to WiFi for telemetry and deployment management. AethLabs is happy to contribute insights from its own data analysis experience and provide suggestions regarding QA/QC methods that have been developed at AethLabs using internal data science tools and related know-how.

AethLabs will also support the project by loaning at no charge, 5 multi-pollutant PM monitors that have been developed and commercialized under recent EPA SBIR Phase II funding for a "Black Carbon and UV Particulate Matter, Multi-gas, Multi-pollutant Sensor Platform". This device is a standalone PM monitor that can be easily deployed, has WiFi data transmission and reports PM1, PM2.5, and PM10 particle number, count, and mass concentration measurements along with CO2, total VOC and NOx measurements.

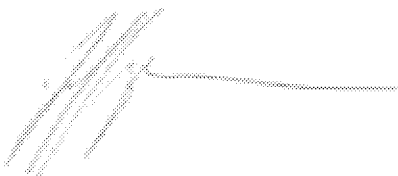
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Total cost for the lease of 5 MA350 instruments for 1 years: \$26,250
No-cost loan of 5 multi-pollutant PM monitors for 1 year: NO CHARGE

If there is interest, and additional funding becomes available before the end of the period of performance of this proposal, AethLabs will apply the \$26,250 rental fee towards the purchase

of those same instruments so that EPA funds can be used as a long term investment into a community network with research grade instrumentation.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Jeffrey Blair', with a long horizontal line extending to the right.

Jeffrey Blair
CEO

Project Title: Cully Clean Air Community Action Project

Applicant: Verde Ex. 6 Personal Privacy (PP), Portland OR 97218, Maricela Ortega, Ex. 6 Personal Privacy (PP)
maricelaortega@verdenw.org DUNS # 614745227

Brief Description of Applicant Organization: Verde is an environmental justice organization serving BIPOC and low-income communities such as NE Portland's Cully neighborhood, where we do much of our work. We focus our efforts on community-identified priorities like a clean and healthy environment, good jobs, and access to housing and transportation.

Project Partners: Sergio Lopez, Energy, Climate, and Transportation Program Coordinator, Verde; Mary Peveto, Executive Director, Neighbors for Clean Air; and Dr. Diana Rohlman, Assistant Research Professor, Oregon State University College of Public Health and Human Sciences.

Project Location: The Cully neighborhood of Portland, Oregon, 97218

Air Pollutant Scope: Particulate matter (PM_{2.5}) is the target air pollutant of concern for our project.

Budget Summary:

EPA Funding Requested	Total Project Cost
\$117,830.45	\$117,830.45

Project Period: November 2022 – November 2023

Short Project Description: Verde, Neighbors for Clean Air (NCA) and Oregon State University (OSU) will collaborate to gather air quality data using black carbon air monitors and create actionable community engagement strategies to ameliorate air quality concerns in Portland, Oregon's Cully neighborhood. NCA, OSU, and Verde will analyze the monitors' data, correlate it with data from other nearby air monitors, and make results accessible through a variety of media. NCA, OSU, and Verde will then use the data to engage with community members to inform regulatory processes and embed environmental literacy and expertise among Cully residents. These efforts will result in the development of long-term expertise among the Cully community and unprecedented grassroots involvement in regulatory processes that could significantly improve air quality for Cully residents.

Section 1 – Project Summary and Approach (30 total possible points)

A. Overall Project (20 possible points)

Our project's overarching goal is to address long-standing air quality issues related to PM_{2.5} in Portland, Oregon's Cully neighborhood, particularly the under-characterized, relatively-unregulated toxic pollutant of diesel particulate matter. To accomplish this goal, we will work with project partners Verde and OSU to gather air quality data using black carbon air monitors to gauge diesel pollutants and use that data to 1) create community engagement strategies that build capacity to advocate for clean air and 2) inform next steps for evaluating and remediating air pollution in the Cully neighborhood. The following activities will be carried out as part of this project:

Activity 1: Air Quality Monitoring and Data Collection

The project will use five black carbon air monitors (microAeth® MA200, a compact, real-time, five-wavelength UV-IR Black Carbon monitor) to assess local impacts from industry, construction, freight movement, and transportation-related emissions. These monitors will be rented for one year and will be placed in November 2022 with Cully residents with whom Neighbors for Clean Air and Verde currently have relationships. Also in November 2022, NCA will hire a Master's of Environmental Management student, who will gather information and conduct data analysis over the one year period. The student, working with Dr. Diana Rohlman, will also analyze the data in relation to weather patterns, including wind, rain, and temperature variations.

Activity 2: Data Analysis and Translation

At monthly intervals, Dr. Diana Rohlman will correlate the collected data to the several Purple Air monitors that NCA and Verde placed in the Cully neighborhood in 2021, which are monitored by Oregon Department of Environmental Quality (DEQ). Dr. Rohlman will also create communication strategies and tools to ensure that this data is easily understood by the community at large, to be completed in early 2023.

At this stage, data collected from monitoring efforts will be used to determine if the Cully neighborhood qualifies for the [[HYPERLINK "https://www.oregon.gov/deq/daq/cao/Pages/default.aspx"](https://www.oregon.gov/deq/daq/cao/Pages/default.aspx)] Pilot Program, a pilot program for evaluating and controlling public health risks from toxic air contaminant emissions from multiple stationary sources. Cully would qualify for corrective action under the program if the data shows that the neighborhood suffers from “two times the benchmark for excess lifetime cancer risk or two times the benchmark for excess noncancer risk within that portion of the pilot program area,” according to Oregon DEQ. The air monitoring data will be correlated with the specific formats required by CAO on health data. provided in the specific formats of CAO Verde will guide neighborhood involvement in the rule-making process should the community qualify and NCA will utilize its extensive experience on rulemaking advisory committees to inform the regulatory process.

Activity 3: Community Outreach and Engagement

Verde and NCA will implement the following activities during the project period to build capacity within the Cully community to advocate for cleaner air.

- **Community awareness.** In late 2022 and early 2023, we will host a series of eight gatherings to share information about air quality issues and the efforts underway to address those issues. We will focus on residents of Cully's six mobile home parks and those who live close to industrial point sources. We will share NCA's informational tools, like a mapping website (www.whatsinourair.org), an interactive clean air handbook, handbook-based videos, and the interactive results of a U.S. Environmental Protection Agency (EPA) diesel monitoring study of which NCA is the community engagement arm.
- **Community leadership.** We will regularly engage with the current Lideres Verdes cohort (12 members) for media and policy training to build their advocacy skills. Lideres Verdes is Verde's leadership training program for low-income adults in Cully.
- **Youth outreach.** We will connect with schools and youth groups to build a youth cohort with air quality expertise and advocacy skills. We will build on NCA's current work with Tubman Middle School and Cully's Native American Youth and Family Center (NAYA) Many Nations Academy.
- **Grassroots action.** We will organize a grassroots effort to push for Oregon DEQ's Environmental Quality Commission to begin rulemaking on PM_{2.5}. NCA will guide a consensus-based process that includes all voices.

- **Rulemaking participation.** If the state does not initiate a rulemaking process, we will collectively continue to advocate for this action. If the state adopts rulemaking, we will ensure that the voices of the Cully neighborhood are included in that process.

B. Project Significance (10 possible points) - PM_{2.5}, of which diesel emissions are the most poorly characterized, under-regulated pollution in Oregon. It poses a serious risk to public health and the environment, with the costs of exposures estimated at over \$3 billion annually. EPA data indicates that 200 – 400 Oregonians die each year from the health effects of PM_{2.5} and that diesel emission risks in Oregon are among the nation’s highest. Specifically, Multnomah County, where Portland is located, is among the top five of 3,000 counties nationwide for exposures to PM_{2.5} from diesel and residents face significantly higher exposure risks due to population density, extensive development activities, and the area’s role as a global freight corridor. According to Oregon DEQ estimates, over half of the diesel equipment in use in the state is based in or moves through the Portland region. The Portland Air Toxics Solutions modeling study conducted by Oregon DEQ in 2011 showed that, regionally averaged, levels of diesel exhaust need to be reduced by at least 86% to reach Oregon’s clean air goal or benchmark for diesel particulate matter. Despite a high level of community, local government, and legislative concern, particularly for the most vulnerable populations, the most significant source of diesel emissions, construction equipment, remains unregulated despite multiple statewide opportunities to do so.

The Cully neighborhood faces serious air quality issues that have never been addressed. This is part of an overall history of disinvestment in the neighborhood. Despite a foundational commitment to equity, the benefits of Portland’s sustainability movement have not been accessible to or inclusive of neighborhoods like Cully. This disparity rests on a long-standing foundation of structural racism in Portland. Cully is a large, highly diverse, majority low-income neighborhood – a place with clear economic, racial, and environmental disparities. Of 13,000 residents, 25% are Latino, 16% are Black, and 9% are Native American. Many residents are foreign-born and do not speak English as their primary language. About a quarter of the Cully population is under age 18 and nine in ten children are on free or reduced-price lunch. Children in Cully have almost no access to safe spaces for outdoor activities. In any case, being outdoors intensifies the effects of poor air quality.

Several air quality issues persist in the neighborhood. PM_{2.5} from diesel emissions is a chief concern, with some census blocks in the 80 – 95th percentiles for diesel emissions. These emissions are magnified given the intersection of transportation routes, warehouses, and construction in the neighborhood and exacerbate existing health disparities, resulting in high healthcare costs and missed workdays for this impoverished neighborhood. Additional sources of air pollution in Cully that impact its residents include extensive industrial facilities, scrapyards that have been routinely cited for air quality permit violations, and the Portland International Airport, among others.

Section 2 – Community Involvement (25 total possible points)

A. Community Partnerships (15 possible points) Verde, described in more detail below, is a Cully-based environmental justice organization that serves communities by building environmental wealth through social enterprise, outreach, and advocacy. Verde will serve as the project lead. OSU’s Dr. Diana Rohlman, whom we have previously partnered with to expand air monitoring in southeast Portland and correlate data to Oregon DEQ monitors efforts to correlate data to other area air monitors and will translate this data into easily understood tools. NCA will serve as project facilitator, building upon its proven track record using numerous avenues, such as Good Neighbor Agreements, lawsuits, community action, and regulatory participation, to achieve reductions in toxic air. NCA will ground data gathering and

community engagement strategies in proven air quality activism expertise and connect data to existing assets, such as a clean air handbook, construction mapping tool ([HYPERLINK "http://www.whatsinourair.org" \h]), and EPA-funded mapping tool. NCA will leverage regulatory expertise that has been gained through organizational leadership serving on numerous federal, state, and local rulemaking and advisory committees and extensive networks with legal, scientific, regulatory, and grassroots experts. NCA will also supervise a graduate student who will gather and analyze data in preparation for analysis.

NCA and Verde's past partnership has resulted in significant reductions in industrial pollutants in the Cully neighborhood. Most recently, we joined together as the community outreach arm on an EPA-funded study, *Improving Diesel Particulate Matter Exposure Assessment for Vulnerable Populations in the Portland Metropolitan Area*. For this project, Verde will build upon its deep and trusting relationship with the Cully community to organize direct community engagement actions, connecting the data and existing NCA assets to community-based educational and activist work. As experts in meaningful involvement, Verde will implement proven strategies that ensure all community members are fully informed, trained, and empowered to improve their neighborhood's air quality.

Dr. Diana Rohlman will use her significant experience to analyze the data collected and correlate it to other air quality monitors, including Purple Air and DEQ monitors, to develop a grounded picture of overall air quality in the Cully neighborhood. Dr. Rohlman will then translate this data into easily understandable formats for use within the community.

B. Community Engagement (10 possible points)

Verde will lead this project's community engagement efforts, with significant involvement and support from NCA and informed by Dr. Rohlman's scientific expertise. Since its founding in 2005, Verde has developed a deep and trusting relationship with the Cully community. The organization reflects the community – staff are predominantly bilingual/bicultural people of color and most live in Cully. The director team is all women and 75% BIPOC. Verde is the only environmental justice organization in Oregon led by a woman of color and has one of the most diverse boards of any Portland-based environmental nonprofit.

Verde has a long history of community outreach in Cully. Over the last two years, their frontline COVID-19 response (e.g., rent assistance, food box delivery, and multilingual COVID-19 information) added hundreds of residents to their network of contacts. For this project, Verde and NCA will develop an organizing plan and timelines and Verde will leverage their leadership cohorts and long-standing relationships to conduct community engagement activities in Cully.

These activities will include:

Build air quality awareness. Verde will host gatherings in Cully to share information about air quality issues, their impacts on health, and efforts underway to address those issues. NCA will provide materials for these gatherings (e.g., handbooks, videos, and access to interactive air quality maps). To draw participants, Verde will conduct outreach via telephone interviews, surveys, and feedback meetings and engage the outreach partners listed below, who can contact their constituents directly.

Build environmental literacy and share tools for advocacy work. Verde and NCA will build on the existing *Lideres Verdes* curriculum to prepare residents for advocacy work. Residents will learn about

advocacy tactics (e.g., postcards and petitions), how to share their stories, and how to be heard by local and state governments. NCA will provide advocacy materials such as FAQs and pamphlets.

Advocate. NCA and Verde will facilitate the involvement of neighborhood residents in policy making decisions. We will work with leadership cohorts, school-based climate justice groups and residents of the neighborhood to use the actionable data to push for greater regulation on diesel PM_{2.5}. We will gather neighborhood interest through tabling events, discussions in neighborhood associations and in organizational meetings.

Program updates and data sharing. Verde and NCA will provide information about monitoring results and program progress, using organizational newsletters and press releases, webinars, eAlerts, and with sections on our websites. The data gathered by Dr. Rohlman will also be used in academic settings and will be shared with her students.

In addition, NCA and Verde will work with Cully residents to co-create materials through which the data is shared with policy makers throughout the region. These materials (flyers, posters, testimonials) will include a combination of scientific data gathered from the air monitors and correlated with other monitors as well as personal stories/experiences, with the aim of pushing for greater regulations on diesel PM_{2.5}.

Youth cohort development. Currently, NCA is engaging with NAYA's Many Nations Academy to build environmental literacy among its environmental science students. This builds on our work with Roosevelt High School students, which has included training cohorts of students on community engagement strategies so that they could effectively advocate on air quality issues. Both schools are located in Cully.

Moving forward, NCA will continue to work with the Many Nations Academy to guest lecture in environmental science classes, engage students in understanding the data generated by the air monitors and work with them to pursue the avenues of air quality change they choose. We will conduct the majority of this work in the Fall of 2022.

Project outreach partners. The following partners can be brought in to assist with outreach efforts mentioned above. Each represents constituents in the community who are critical parts of the Cully neighborhood and those who have direct experience with toxic air.

- Living Cully partners:
 - Hacienda CDC: Represents five affordable housing complexes.
 - NAYA: Represents indigenous residents.
 - Cully Housing Action Team (CHAT): Represents six mobile home parks.
- St. Vincent DePaul and St. Charles Church, faith institutions focusing on social services.
- Latino Network, a Portland-based organization supporting and representing Latinx residents.

Data collection and sharing. Data will be collected in real-time and made available through a cloud-based server at [[HYPERLINK "https://aethlabs.com/" \h](https://aethlabs.com/)], the manufacturer of the air quality monitors used for this project. Each month, Dr. Diana Rohlman and a graduate student will download the data and conduct an analysis to summarize results. A summary will be posted to NCA's webpage and included in training materials to provide clear messaging regarding exposure to PM_{2.5}. Specifically, the data will be analyzed to calculate a rolling 24 hour average, following the methodology of the [[HYPERLINK "https://www.epa.gov/criteria-air-pollutants/naaqs-table" \h](https://www.epa.gov/criteria-air-pollutants/naaqs-table)]. Data will be shared along with context

(e.g., PM_{2.5} levels in other regions of Oregon). If PM_{2.5} levels exceed the recommended 24-hour limit per NAAQS (35µg/m³), contextual information (e.g., wildfire smoke also detected) will be provided. Dr. Rohlman has previously reported PM_{2.5} information to over 100 homes in Corvallis, Oregon and tested the way data is visualized and prepared.

Each month, trends in frequency and concentration of black carbon will be analyzed to evaluate spatial and temporal trends and correlated to area air quality monitors. Results will be mapped to publicly available atmospheric data (temperature, precipitation, relative humidity, and wind direction). In this way, the grant partners will better understand patterns of exposure within the Cully neighborhood, and environmental influences that may contribute to these patterns. Using ArcGIS, the data will be mapped to the [[HYPERLINK "https://www.epa.gov/toxics-release-inventory-tri-program" \h](https://www.epa.gov/toxics-release-inventory-tri-program)], additional ArcGIS datasets (e.g., U.S. major highways, minor roads, and freeways), and the [[HYPERLINK "https://www.ospo.noaa.gov/Products/land/hms.html" \h](https://www.ospo.noaa.gov/Products/land/hms.html)] to assess impact of wildfire smoke and potential contributions from nearby sources.

A summative analysis of this data will be reported by the end of the project, allowing a comprehensive look at seasonal patterns of PM_{2.5} in the Cully neighborhood and identifying locations where exposures may be greater due to environmental (e.g., wildfires, inversions) or built environment (e.g., proximity to industrial facilities or highways) factors. This analysis will be shared with community members in easily digestible, accessible formats (e.g., slides, maps, and handouts) that show the extent of diesel PM_{2.5} in the neighborhood on a consistent basis.

Section 3 – Environmental Justice and Underserved Communities (10 total possible points)

Too often, decisions about air quality regulations and programs are made in rooms that are not accessible to limited English speakers, people in the midst of poverty, or BIPOC community members. In Oregon, these rooms are in our capitol, Salem, either at the state legislature or in commission meetings for Oregon DEQ. These meetings are often in the middle of the day, making them difficult to access for community members and leading to an overrepresentation by industry representatives.

Under EPA’s environmental justice guidelines, Cully is considered an “overburdened community” that does not receive fair treatment compared to other parts of Portland. This is due in part to the air pollution that is ubiquitous in the community, which is of deep concern given that Cully is the most diverse neighborhood in Portland, with a 48% BIPOC population. According to the Oregon Health Authority, Black and Indigenous people have at least a 50% higher rate of asthma than white people, with asthma rates in the Cully neighborhood in the 80–95th percentile. PM_{2.5} diesel pollution has also been linked to high blood pressure, which Black and Indigenous people in Portland experience at significantly higher rates than white people. Indigenous people specifically have the highest number of years of life lost due to these and other health disparities. In Cully, Indigenous populations are among the highest in the city.

Other environmental health risks occur directly in the Cully neighborhood. In 2018, a fire at a scrapyard drove dozens to the emergency room and forced hundreds of neighbors to evacuate. The company faced a stiff fine and an injunction against its operation. In 2020, Oregon DEQ released information about a nearby glass recycling plant, Owens-Brockway, which showed that the plant emitted hundreds of pounds of arsenic and lead. In response, Cleaner Air Oregon (mentioned above), an entity that NCA guided into being in 2018, slapped the company with a serious fine and orders to reduce the plant's pollution by up to 95%.

These advances resulted from the highly effective, meaningful involvement strategies implemented by Verde and NCA. Collectively, we will continue these efforts through this project. Through community-wide gatherings, engagement of Verde’s leadership cohort, and newly developed youth cohorts, Cully residents will learn valuable advocacy skills that they can use to participate in decisions that affect their health and the community’s air quality. These gatherings will be accessible, with food, childcare, and translators, and offered at varying times of the day. One of the most effective strategies for NCA and Verde has been to ensure that residents’ lived experiences are publicly included in larger decision-making through testimonies and videos and by inviting decision-makers to see the direct experiences of residents. Through this project, NCA and Verde will continue to contextualize these lived experiences using verified data that paints a community-wide picture.

Just as importantly, Cully residents will participate in activist trainings that focus on the air regulatory processes that are often difficult to access and navigate. By sharing effective routes to change, NCA and Verde will ensure that neighborhood residents have the long-term capacity to confront air quality crises, with ongoing support from NCA and Verde as necessary.

Section 4 – Environmental Results (20 total possible points)

A. Expected Project Outputs and Outcomes (10 possible points)

This proposed project fits with EPA’s Clean Air goals, as defined in the agency’s strategic plan, in that it addresses and creates conditions to change disparities faced by high-poverty, highly diverse populations in their exposures to PM_{2.5}.

Outputs:	Gathered, correlated, and translated air quality data, specifically diesel emissions, into easily understood formats. We will correlate data with existing health concerns of Cully residents, using existing informational resources from Verde and creating new resources based upon new air quality data.
	Conducted a series of activities that further community engagement, advocacy, and data sharing using established and successful communication tools and extensive staff expertise. Activities include: <ul style="list-style-type: none"> • Eight community-based gatherings. • Further development of Verde’s leadership cohorts. Further development of a youth cohort.
Short-term project outcomes:	Identify sources of speciated <i>air toxics</i> and <i>disaggregate data to determine the extent of PM_{2.5} and toxic pollutants, such as arsenic and cadmium, that are emitted by nearby industrial facilities.</i>

	<i>Translate air quality data into accessible formats and share with the Cully community via existing communication tools to raise awareness about PM_{2.5} and other air pollutants.</i>
Intermediate project outcomes:	<i>Engagement at an unprecedented level in state-wide processes to regulate diesel PM_{2.5} emissions</i>
	<i>If applicable, participation of Cully residents in the Cleaner Air Oregon Pilot Project process, including initial determination, adoption, and watchdogging any corrective measures.</i>
Long-term project outcomes:	A substantial reduction in the health risks associated with toxic air in the Cully neighborhood.
	<i>The embedding of environmental literacy and air advocacy skills for Cully residents.</i>

B. Performance Measures and Plan (5 possible points) -- We will assess our success on both a short- and long-term basis and will involve community members in these assessments, gathering feedback with questionnaires and interviews.

In the **short-term**, we will determine the success of placing the air monitors and ensuring they are fully functioning, including a determination of air toxics as a control. **As we expand our program**, we will judge our success by the extent to which a diverse array of individuals uses our **informational resources and advocacy tools**. We will judge this by the number of people who access our website, download both the English and Spanish versions of NCA's Clean Air Handbook, distribute flyers and more. We will also determine the success of this component by the attendance at the **events** (minimum of 20 people each). We will also determine the success of this community engagement by the participation of community partners in efforts to hold regulators accountable and advocate for more ambitious air quality action. **Long-term**, we will judge our success by the extent to which the Cully community is engaged in a process to create protective regulations on diesel to improve health disparities. Additionally, we will determine success by the extent to which Cully responds to additional air quality crises in the future.

C. Timeline and Milestones (5 possible points)

November - December: NCA rents five black carbon monitors and confirms hiring of a graduate student. Verde and NCA will arrange safe placement of monitors. Graduate student and Dr. Diana Rohlman establish controls and data collection protocols.

January - February 2023: Data gathering begins. NCA and Verde hold the first of eight gatherings on tools for air quality change. NCA and Verde begin facilitating community engagement activities in state decision-making processes. Monthly data assessments and facilitation of community engagement activities continue with consistent meetings and co-development of educational materials. **Prepare quarterly report.**

March - April 2023: Monthly data assessments continue. NCA and Verde hold the second of eight gatherings focusing on community engagement strategies. To follow up on this, NCA and Verde will

support cohorts and individuals in preparing testimonies and other advocacy tools so that they can have their voice heard in statewide public policy proposals. **Prepare quarterly report.**

April - May 2023: Conduct quarterly correlation of data between black carbon data and other air monitoring tools. Share with the Cully neighborhood through the third of eight gatherings, which will also focus on an assessment of the progress made with state policy proposals.

June - July 2023: – Hold fourth of eight gatherings, with this one focused on an assessment of state policy proposals and the next steps. NCA and Verde will hold a fifth gathering that will either pivot to ensuring that Cully community members are prepared and are involved in rulemaking for diesel pollutants or determine the next steps for regulations. **Prepare quarterly report.**

August - September 2023 – Conduct follow up regarding the next steps, either focused on rulemaking or on additional policies. The sixth gathering will focus on the needed skills for either option.

October 2024 – Gather final data sets and conduct correlation and analysis.

November 2024 – Hold final community gathering to share data and conduct collective evaluation of the program. The evaluation will include the final gathering to collect personal stories and individual assessments of the knowledge and skills gained within the community. **Prepare final report.**

Section 6 – Programmatic Capability and Past Performance (15 total possible points)

A. Past Performance (5 possible points)

Verde

Meyer Memorial Trust – \$250,000 general operating support for Living Cully, a collaborative that works in Portland's Cully neighborhood. Published a preliminary report on the creation of a *community-led* Tax Increment Financing (TIF) district in Portland's Cully neighborhood. Led passage of the Tenant Opportunity to Purchase policy to prevent displacement citywide.

The Kresge Foundation – \$100,000 to support equitable housing and development. Published a preliminary report on the creation of a *community-led* Tax Increment Financing (TIF) district in Portland's Cully neighborhood.

The Libra Foundation – \$200,000 for water justice advocacy. With the Oregon Water Futures Collaborative, published the Oregon Water Futures Project Report.

Energy Foundation – \$25,000 to develop four community solar pilot projects, including exploration of cooperative ownership of facilities.

The Collins Foundation – \$120,000 in operating support to prevent displacement from Portland's Cully neighborhood; win a Community Benefits Agreement (CBA) in the Broadway Corridor development; develop a water justice vision for Oregon; and modify Oregon's Highway Trust Fund to unlock money to benefit low-income and BIPOC communities.

Neighbors for Clean Air

Bullitt Foundation – \$120,000. Proposal funded the hiring of a new development and communications professional, resulting in a doubling of individual donors and significant new communication tools.

Meyer Memorial Trust – \$250,000 for a collaborative, Breathe Oregon. With Lewis and Clark College's Green Energy Institute, the Northwest Environmental Defense Council and Portland State University to raise community awareness of air regulation and to analyze policy solutions.

Concordia Foundation – \$50,000. This general support grant supported basic NCA costs.

Metro Central Enhancement Grant – These grants support air quality work in the industrial NW Portland neighborhood and the creation of a neighborhood activist cohort. The cohort is now in place, many of whom are hosts for Purple Air monitors that NCA has lent to them. Work will continue to support this cohort.

Oregon State University Pilot Project Air Monitoring – \$20,000. This grant supported the placement of 10 Purple Air monitors and the creation, by Dr. Rohlman and a graduate student, of tools to analyze the monitors and correlate the data to nearby air quality monitors.

B. Reporting Requirements (5 possible points)

Verde

Meyer Memorial Trust – \$250,000 This is a multi-year grant, all reports submitted at regular intervals and goals met.

The Kresge Foundation – \$100,000 in operating support to continue development of the nation’s first community-controlled Tax Increment Financing (TIF) district. This is a multi-year grant, all reports submitted at regular intervals and goals met.

Libra Foundation – \$200,000 Multi-year grant, all reports submitted at regular intervals and goals met.

Energy Foundation – \$25,000 Goals met and final report complete.

Collins Foundation–\$120,000 Multi-year grant, all reports submitted at regular intervals and goals met.

Neighbors for Clean Air

Bullitt Foundation – \$120,000. Report submitted and goals met.

Meyer Memorial Trust – \$250,000 for a collaborative, Breathe Oregon. This is a multi-year grant and all reports submitted at regular intervals and goals met.

Concordia Foundation – \$50,000. Report submitted and goals met.

Metro Central Enhancement Grant – Two overlapping grants of \$35,000 each. Final report submitted on one, interim report on the other. Goals met.

Oregon State University Pilot Project Air Monitoring – \$20,000. The project is wrapping up; NCA is on track to meet all goals and will be creating a technical report, in collaboration with Dr. Rohlman.

C. Staff Expertise (5 possible points)

Executive Director Mary Peveto co-founded NCA in 2010 to ensure cleaner air for all Oregonians. She activated friends, neighbors, and people throughout our region to work for stricter standards to regulate air toxics in Oregon and to galvanize the citizen action necessary to effect change. Mary is our guiding voice in organizing, policy, and organizational vision. Board member Nakisha Nathan is organizing outreach and implementation of a community engagement plan to share results of an EPA-funded diesel study and engage our neighbors in specific strategies to create change. Kristin Teigen, NCA’s Development and Communications Coordinator, creates and supports communications strategies. Community Engagement Coordinator Micah Bishop provides direct support to community partners and coordinates educational tools.

Sergio Lopez is the Energy, Climate, and Transportation Coordinator at Verde. He is responsible for coordinating with Verde staff, community members, partner organizations, and other stakeholders to represent the strategic direction of Verde’s environmental justice values and policy priorities. One of Verde’s primary programmatic roles will be to leverage its experience by hosting community-based gatherings, conducting educational outreach for air quality related issues, and developing innovative and culturally-appropriate organizing and engagement strategies. Verde focuses directly on working in low-income communities and communities of color. With this overlap, outreach and engagement will solely focus on organizing with the respected communities.

Dr. Diana Rohlman is an Assistant Research Professor at OSU in the College of Public Health and Human Sciences. She holds a Ph.D. in toxicology from OSU. At OSU, Dr. Rohlman directs the Community Engagement Cores of the Pacific Northwest Center for Translational Environmental Health Research and the Superfund Research Program, the latter of which she also serves as the co-lead of the Research

Translation Core. Her research focuses on using environmental health literacy to help communities better understand and respond to environmental health hazards, such as disasters and proximity to Superfund sites. As a public health toxicologist, she works with interdisciplinary teams to tackle large-scale problems such as chemical exposures from disasters (e.g., hurricanes, forest fires) or impacts of air pollution on asthma, using community-engaged methodologies.

Section 7 – Budget (20 total possible points)

A. Budget Detail (5 possible points)

Line Item & Itemized Cost	EPA Funding
Personnel	
1) NCA Executive Dir. at \$70,000 (.20 FTE)	\$17,500
2) Verde ECT Program Coord. (.23 FTE)	\$12,800
3) OSU/Dr. Diana Rohlman	\$5,792
4) Graduate Student	\$12,808
Personnel subtotal	48,900
Fringe Benefits	
16.5% (health care, PTO, FICA – NCA and Verde)	\$7,212
47% for OSU/Diane Rohlman	\$2,722
PERSONNEL TOTAL	\$58,834
Travel (For Diana Rohlman, Travel from Corvallis to Portland)	
1) Lodging	\$96
2) Per Diem	\$118
3) Gas (85 miles at \$0.585/mile)	\$99.45
Travel Total	\$313.45

Air Monitors	
4) Lease of 5 MA350 instruments for 1 year	\$26,250
Materials	
1) Outreach materials	\$5,000
2) Translation	\$5,060
Materials Total	\$10,060
Stipends for Cohort participants	
1) Stipends (20 @ \$100)	\$2,000
SUBTOTAL	97,457.45
Indirect Costs	
1) NCA and Verde (@15%)	\$14,619
1) OSU (F & A)	\$5,755
Total Indirect Costs	\$20,373
TOTAL	\$117,830.45

B. Reasonableness of Costs (10 possible points) -

The largest cost for this grant will be staff, as they will be the primary driver of these activities and will utilize both expertise and time to ensure our objectives are met. Effective staff are critical for driving the scientific analysis, the environmental literacy work, the engagement strategies, and the support for community involvement. In addition, the costs of materials, translation and stipends are necessary to ensure that the data produced by the monitors and the tools for effective engagement are shared in the most easily accessible ways possible. Stipends will be provided on an as-needed basis to Verde community members and youth. Finally, a small amount will be dedicated to travel, most specifically for Dr. Rohlman to travel from Corvallis, Oregon to Portland to oversee the monitors.

C. Expenditure of Awarded Funds (5 possible points) - Upon award of a grant, both organizations' accounting teams are provided the budget of proposed spending by category over the term of the proposed spending period. As expenses are approved and paid, they are posted to the books assigned to the appropriate grant. Management reports are produced to track expenses against the grant awards and reported to the Management Teams and Boards for regular review. Using the reports, we track the

progress of the funded activity – both financially and within the time constraints of the award to ensure we meet the guidelines of the restricted funds.

OSU will be a sub recipient under this grant. We will set up a contractual agreement with OSU, under the terms outlined in the institutional letter of support, scope of work, and budget justification. Once confirmed, OSU will prepare quarterly invoices and submit them to the project lead.

EARL BLUMENAUER
Third District, Oregon
COMMITTEE ON WAYS AND MEANS



WASHINGTON OFFICE:
1111 LONGWORTH BUILDING
WASHINGTON, DC 20515
(202) 225-4811

DISTRICT OFFICE:
811 NE 11th Ave.
Suite 200
PORTLAND, OR 97232
(503) 231-2300

website: blumenauer.house.gov

Congress of the United States
House of Representatives
Washington, DC 20515

March 23, 2022

Michael Regan, Administrator
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Dear Administrator Regan,

I write to express my support for the proposal from Verde and Neighbors for Clean Air, two organizations active in my congressional district, to the Environmental Protection Agency (EPA) for the Enhanced Air Quality Monitoring for Communities grant program. The proposal, entitled *Cully Clean Air Community Action Project*, intends to increase important air quality monitoring in an underserved area of Portland, Oregon.

With funding from EPA, Verde and Neighbors for Clean Air, in partnership with the Pacific Northwest Center for Translational Environmental Health Research at Oregon State University, propose to better characterize PM 2.5 diesel pollution in the Cully neighborhood. For many years, diesel pollution has been a known severe air quality contaminant in Portland. Indeed, the Portland region ranks high nationwide for this contaminant. The majority of this pollution comes from off-road equipment like rail, construction, and shipping. This ubiquitous toxic emission has caused troubling health concerns for our communities, as well as significant estimated costs from missed workdays and medical expenses.

The issue is most concerning in underserved areas like Portland's Cully neighborhood, which is home to one of the city's most diverse communities. Not unlike similar neighborhoods across the country, this community sits at the intersection of many environmental hazards. However, Cully residents are uniquely at risk due to the location of the neighborhood near rail, construction, and shipping corridors. If funded, this project plans to increase black carbon air quality monitors and create community engagement strategies to ameliorate air quality concerns in this part of Portland. It is poised to generate important data and

community awareness in Cully that ultimately can serve as powerful tools to reduce this harmful toxic.

I urge you to give your full and fair consideration to this important proposal.

Sincerely,

A handwritten signature in black ink, appearing to read "Earl Blumenauer". The signature is fluid and cursive, with the first name "Earl" being more prominent than the last name "Blumenauer".

Earl Blumenauer
Member of Congress

Manifest for Grant Application # GRANT13579878

Grant Application XML file (total 1):

1. GrantApplication.xml. (size 27352 bytes)

Forms Included in Zip File(total 6):

1. Form ProjectNarrativeAttachments_1_2-V1.2.pdf (size 16024 bytes)

2. Form SF424_3_0-V3.0.pdf (size 24237 bytes)

3. Form SF424A-V1.0.pdf (size 22707 bytes)

4. Form EPA4700_4_3_0-V3.0.pdf (size 22850 bytes)

5. Form OtherNarrativeAttachments_1_2-V1.2.pdf (size 15995 bytes)

6. Form EPA_KeyContacts_2_0-V2.0.pdf (size 37384 bytes)

Attachments Included in Zip File (total 12):

1. SF424_3_0 SF424_3_0-AdditionalProjectTitle-1235-Blumenhauer Letter of Support.pdf application/pdf (size 240793 bytes)

2. SF424_3_0 SF424_3_0-AdditionalProjectTitle-1236-Neighbors for Clean Air Letter of support 2022-03-24.docx application/vnd.openxmlformats-officedocument.wordprocessingml.document (size 27733 bytes)

3. SF424_3_0 SF424_3_0-AdditionalProjectTitle-1237-Office of Cmr Rubio Letter of Support EPA Grant 2022.03.23.pdf application/pdf (size 192796 bytes)

4. SF424_3_0 SF424_3_0-AdditionalProjectTitle-1238-AETHLABS - Neighbors for Clean Air Letter of support 2022-03-20 (1).pdf application/pdf (size 37501 bytes)

5. OtherNarrativeAttachments_1_2 OtherNarrativeAttachments_1_2-Attachments-1243-501 (c) (3) Letter - New.pdf application/pdf (size 48989 bytes)

6. OtherNarrativeAttachments_1_2 OtherNarrativeAttachments_1_2-Attachments-1240-Lopez Resume.docx application/vnd.openxmlformats-officedocument.wordprocessingml.document (size 21683 bytes)

7. OtherNarrativeAttachments_1_2 OtherNarrativeAttachments_1_2-Attachments-1244-Verde-NCA-OSU Quality Control Statement.docx application/vnd.openxmlformats-officedocument.wordprocessingml.document (size 17829 bytes)

8. OtherNarrativeAttachments_1_2 OtherNarrativeAttachments_1_2-Attachments-1241-Mary Peveto Resume.pdf application/pdf (size 196246 bytes)

9. OtherNarrativeAttachments_1_2 OtherNarrativeAttachments_1_2-Attachments-1242-Rohlman_resume (1).docx application/vnd.openxmlformats-officedocument.wordprocessingml.document (size 29676 bytes)

10. OtherNarrativeAttachments_1_2 OtherNarrativeAttachments_1_2-Attachments-1245-NCA - Letter of Committment.docx application/vnd.openxmlformats-officedocument.wordprocessingml.document (size 61665 bytes)

11. ProjectNarrativeAttachments_1_2 ProjectNarrativeAttachments_1_2-Attachments-1239-Cully Air Action Project Narrative - EPA.docx application/vnd.openxmlformats-officedocument.wordprocessingml.document (size 47947 bytes)

12. SF424_3_0 SF424_3_0-AdditionalProjectTitle-1234-Kafoury Letter of Support - NCA & Verde EPA EAQMC Grant App 2022.pdf application/pdf (size 342235 bytes)



Commissioner Carmen Rubio
City of Portland

March 23, 2022

TO: Candace Avalos
Executive Director
Verde

Mary Peveto
Executive Director
Neighbors for Clean Air

Dear Candace and Mary,

I am writing with strong support for your proposal to the Environmental Protection Agency, Enhanced Air Quality Monitoring for Communities, which details your intended collaboration between Verde, Neighbors for Clean Air, and Oregon State University's Pacific Northwest Center for Translational Environmental Health Research to better characterize Particulate Matter (PM_{2.5}) diesel pollution in the Cully neighborhood. I look forward to supporting your collective efforts to use data to create actionable strategies for change with Cully neighbors and allies.

As a Portland City Commissioner who's deeply committed to Black, Indigenous, and people of color (BIPOC) communities, I am very aware of how numerous environmental hazards disproportionately impact Cully, one of Portland's most diverse neighborhoods and made up of 48 percent BIPOC. Cully experiences significant air quality concerns, particularly with diesel PM_{2.5}. Reducing diesel would immediately improve Cully neighbors' health. The air quality crises are evident in the rates of asthma in the Cully neighborhood, which are in the 80-95th percentile. Diesel is linked to high blood pressure, which BIPOC Portlanders experience at significantly higher rates than their white counterparts.

The economic impacts are deeply concerning. Throughout the state, the costs of health disparities and lost workdays exceed \$3 billion annually. This burden is felt higher in Cully, whose census blocks rise to a 46% poverty rate. Under these circumstances, one lost workday and one medical bill can be catastrophic.

No one individual can control their neighborhood's air quality, and I applaud your collective efforts to partner with Cully residents to reduce the overall burden of toxic air.

Best,

Carmen Rubio
Commissioner, City of Portland



Deborah Kafoury Multnomah County Chair

March 23, 2022

TO: Candace Avalos
Executive Director
Verde

Mary Peveto
Executive Director
Neighbors for Clean Air

Dear Candace and Mary,

Today I am writing to express my strong support for your proposal to the Environmental Protection Agency (EPA), **Enhanced Air Quality Monitoring for Communities**. The proposed project details the intended collaboration between Verde, Neighbors for Clean Air and OSU's Pacific Northwest Center for Translational Environmental Health Research to better understand the concentration and distribution of PM 2.5 diesel pollution in the Cully neighborhood, which would add to the collective knowledge base of air quality in the community. I support your efforts to use data to create actionable strategies for change with Cully neighbors and allies.

It is encouraging to see increased capacity at Verde to engage on air quality issues. Verde is a community partner organization with Multnomah County and Portland Public Schools on a recently awarded technical assistance grant from EPA. This technical assistance project is focused on using public schools as clean-air and cooling shelters during air quality emergencies caused by wildfire smoke and extreme heat respectively. Multnomah County is one of only four communities nationally to receive this award. The award of the Enhanced Air Quality Monitoring for Communities, Neighbors for Clean Air and Verde would further leverage the EPA technical assistance project.

Through my tenure as Multnomah County Chair, I have had the opportunity to work closely with Verde and Neighbors for Clean Air and I've seen the impact they've made across our community.

It is clear that Cully, Portland's most diverse neighborhood, is disproportionately affected by numerous environmental hazards. This includes significant air quality concerns, primary of which is PM 2.5 diesel particulate matter. Reducing diesel would immediately improve the health of Cully residents, 48% percent of whom are Black, Indigenous and People of Color (BIPOC). Air pollution is associated with several leading causes of death in Multnomah County and there are large and persistent racial and ethnic disparities in some of these causes. For example, the death rate from diabetes among the County's Black population is nearly three times the rate among the non-Hispanic white population.

The economic impacts are also of deep concern. Throughout the state, the costs of health disparities and lost work days exceeds \$3 billion annually. This burden is higher in Cully, where some census blocks have a 46% poverty rate. Under these circumstances, one lost work day and one medical bill can be catastrophic.

No single individual can control the toxics in their neighborhood's air. Therefore, I applaud your collective effort to engage with Cully's residents to reduce the overall burden of toxic air on the entire neighborhood.

Sincerely,

A handwritten signature in black ink, appearing to read "Deborah Kafoury". The signature is fluid and cursive, with the first name "Deborah" being more prominent than the last name "Kafoury".

Deborah Kafoury
Multnomah County Chair